

PATENT ABSTRACTS OF JAPAN

(11)Publication number : **04-216827**(43)Date of publication of application : **06.08.1992**

(51)Int.CI.

C08G 77/06
C04B 41/87
C08G 77/08
C09D183/04

BEST AVAILABLE COPY(21)Application number : **03-023253**(22)Date of filing : **18.02.1991**

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(30)Priority

Priority number : **90 483525** Priority date : **22.02.1990** Priority country : **US****(54) PRECURSOR MATERIAL POLYMER FOR CERAMIC COATING****(57)Abstract:**

PURPOSE: To provide a manufacturing method of a soluble resinous hydrolyzate contg. a polymer comprising a unit shown by the formula $\text{HSi}(\text{OH})_x(\text{OR})_y\text{Oz}/2$ by hydrolyzing hydride silane, such as triethoxy silane, shown by the formula $\text{Hsi}(\text{OR})_3$.

CONSTITUTION: This method of manufacturing a soluble resinous hydrolyzate by hydrolyzing hydride silane shown by formula $\text{HSi}(\text{OR})_3$ is a method of hydrolyzing the hydride silane contg. a process of making a mixture by combining components comprising the hydride silane, an oxygen contg. polar organic solvent like an alcohol such as ethanol, etc., water, and hydrogen chloride, then, heating the hydride silane at 40-100°C for 0.1-24 hr to promote the hydrolysis of the hydride silane. Further, the manufactured soluble hydrolyzate and a method of forming a protective coating and an inductive coating between the levels of multi-layered device by coating the hydrolyzate on various materials including electronic devices.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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**INPADOC
Record**

JP4216827A2: PRECURSOR POLYMER FOR CERAMIC COATING

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Country: **JP Japan**
 Kind: **A2 Document Laid Open to Public Inspection**
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 Issued/Filed Dates: **Aug. 6, 1992 / Feb. 18, 1991**
 Application Number: **JP1991000023253**
 IPC Class: **C08G 77/06; C04B 41/87; C08G 77/08; C09D 183/04;**
 ECLA Code: **none**
 Priority Number(s): **Feb. 22, 1990 US1990000483525**

Family:

Patent	Issued	Filed	Title
NL443760R3	March 11, 1992		
NL443760R2	Aug. 28, 1991		
JP4216827A2	Aug. 6, 1992	Feb. 18, 1991	PRECURSOR POLYMER FOR CERAMIC COATING
IT443760R3	March 11, 1992		
IT443760R2	Aug. 28, 1991		
GB443760R3	March 11, 1992		
GB443760R2	Aug. 28, 1991		
FR443760R3	March 11, 1992		
FR443760R2	Aug. 28, 1991		
ES443760R3	March 11, 1992		

ES443760R2	Aug. 28, 1991		
EP443760A3	March 11, 1992	Feb. 12, 1991	Precursor polymer for ceramic coatings
EP443760A2	Aug. 28, 1991	Feb. 12, 1991	Precursor polymer for ceramic coatings
DE443760R3	March 11, 1992		
DE443760R2	Aug. 28, 1991		
CA2035367AA	Aug. 23, 1991	Jan. 31, 1991	PRECURSOR POLYMER FOR CERAMIC COATINGS
BE443760R3	March 11, 1992		
BE443760R2	Aug. 28, 1991		
18 family members shown above			

Other Abstract Info:

CHEMABS 115(22)234883K DERABS C91-254344

Foreign References:

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(43)公開日 平成4年(1992)8月6日

(51)Int.Cl.^{*}

C 08 G 77/06	識別記号 NUB	序内整理番号 6939-4 J
C 04 B 41/87	Z	8821-4G
C 08 G 77/08	NUD	6939-4 J
C 09 D 183/04	PMV	6939-4 J

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技術表示箇所

審査請求 未請求 請求項の数11(全 7 頁)

(21)出願番号 特願平3-23253

(22)出願日 平成3年(1991)2月18日

Priority Number

(31)優先権主張番号 483525

(32)優先日 1990年2月22日

(33)優先権主張国 米国(US)

It is not
issued.**Priority Date**

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(54)【発明の名称】セラミックコーティング用先駆物質ポリマー

(57)【要約】(修正有)

【目的】トリエトキシシラン等の式 $HSi(OR)_n$ で表されるヒドリドシランを加水分解して、式 $HSi(OH)_n(OR)_m$ で表される単位を有するポリマーを含んでなる可溶性樹脂状水解物を形成する方法を提供する。

【構成】式 $HSi(OR)_n$ で表わされるヒドリドシランを加水分解して可溶性樹脂状水解物を作る方法が、該ヒドリドシラン、エタノール等のアルコールの如き酸素含有極性有機溶剤、水及び塩化水素等の酸を含んでなる成分を組合せて混合物を作り、そして該ヒドリドシランを40~100°Cで0.1~24時間加熱して混合物中の該ヒドリドシランの加水分解を促進する工程を含んでなる前記ヒドリドシランを加水分解する方法。更に生成した可溶性水解物と、該水解物を用いて電子デバイスを含む種々の基材にコーティングを施して保護被膜又は多層デバイスのレベル間誘導性被膜を形成する方法。

* If this abstract is essential, please let us know.